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January 27, 2015

Mr. Ron Carrington

Director of Central Engineering
Hydrite Chemical Co.
114 N. Main St,
Cottage Grove, WI 53527

RE: Proposal for Air Monitoring Support – Phases 2 and 3

FILE: 20006/PDS No. 40953

Dear Mr. Carrington:

O'Brien & Gere (OBG) is pleased to present Hydrite Chemical Co. (Hydrite) with this proposal for air monitoring services at Hydrite's facility located in Terra Haute, Indiana. The objective for these services is to install and provide support for Hydrite's operation of a new air quality monitoring system for sulfur dioxide (SO₂) and ammonia (NH₃) in and around their Terra Haute facility starting by April 1, 2016. Services are proposed in the following three phases:

Phase 1. System Design and Monitoring Plan Development

Phase 2. System Procurement, Installation and Operations Training

Phase 3. Quality Assurance (QA)/Quality Control (QC) Operations Support

Phase 1 was proposed on November 24, 2015 and that scope of work is currently being completed with a draft air monitoring plan anticipated to be submitted later this week. Phase 2 and 3, proposed herein, are based on the network described in our system overview letter to you on December 18, 2015, and described below. The following proposal has been developed in response to our recent telephone discussions and provides sections outlining the air monitoring network design, scope of services for Phases 2 and 3, project schedule, and fee.

AIR MONITORING NETWORK DESIGN

MONITORING LOCATIONS

The Hydrite Terre Haute air quality monitoring (AQM) network will measure air concentrations of SO₂ and NH₃ in and around the facility at AQM stations in 10 locations as follows:

- Outdoors
 - » Off-site racetrack to the north – 1 station
 - » Hydrite property line facing the racetrack and 4 nearest residential communities – 5 stations
- Inside the Facility or near Facility Emission Sources
 - » In Buildings PO1 and PO2 (B1 process area plus NH₃ bullet tank outside PO2) – 3 stations
 - » In Building PO3 (B2 process area) – 1 station



333 West Washington Street, PO Box 4873
Syracuse, NY 13221-4873



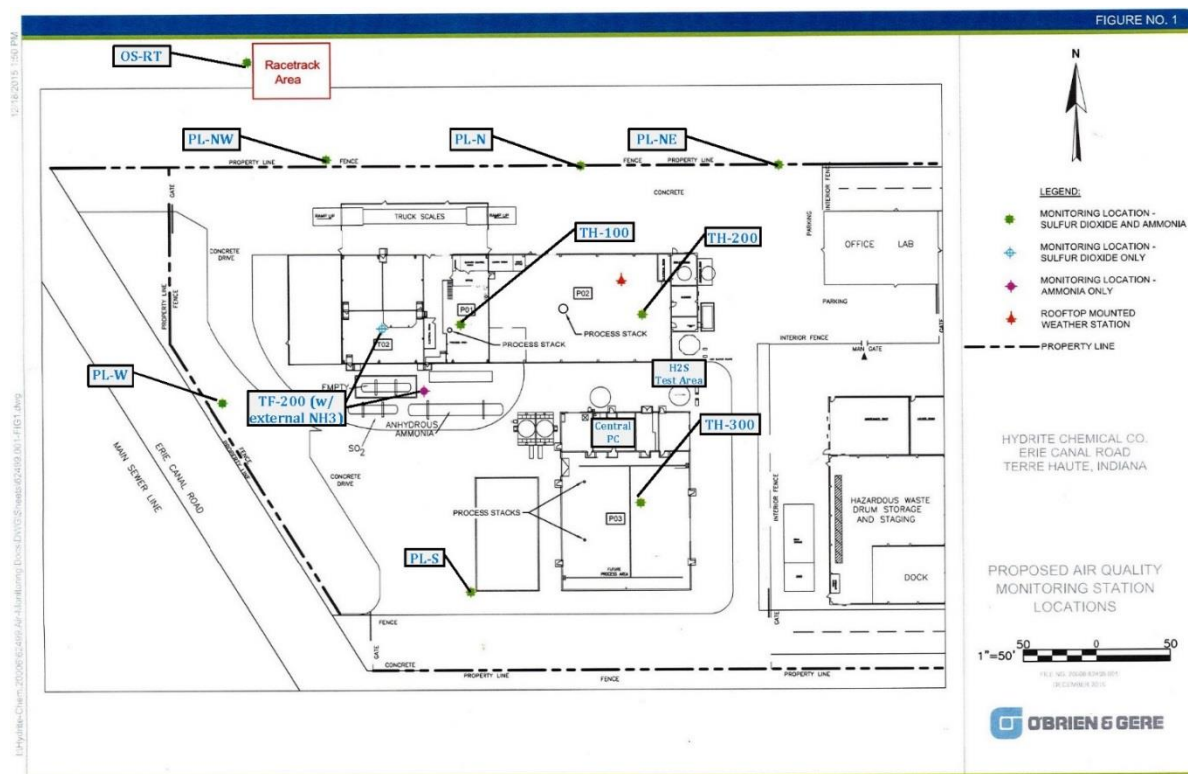
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The approximate station layout is presented in Figure 1. Specific station locations will be selected in Task 1 of Phase 2. Please note in Figure 1 that hydrogen sulfide (H_2S) will be tested at various times using a sample line that can be repositioned to measure various locations in the area outside southeast corner of PO1.

Figure 1. Proposed Air Quality Monitoring Station Locations



EQUIPMENT

Air Monitors

SO_2 and NH_3 will be measured at each station using a Rae Systems MultiRAE Lite real-time monitor with SO_2 and NH_3 sensors. At all stations except the west-most station in PO2, there will be one MultiRAE monitoring both SO_2 and NH_3 . At the west-most station in PO2, there will be two MultiRAE monitors - one to sample SO_2 inside the building, and one to sample NH_3 outdoors near the NH_3 bullet tank. In addition, at times a MultiRAE will be operated at the east-most station in PO1 with a sample inlet running to the outdoor southeast corner of PO1 for H_2S measurements.

Each SO_2 and NH_3 monitor will be configured to continuously measure real-time concentration 24 hours per day, 7 days per week. Real-time data will be stored as 15-minute time-weighted averages from outdoor stations and 1-hour time-weighted averages from the indoor stations. Each station will be configured with at least two automated alarms for SO_2 and NH_3 - one at the action level and one at the lower control level. Alarms will automatically trigger operator notifications at a PC computer located in or near the Facility control room in PO3, and will also send email or text message alarms to other personnel specified by Hydrite. As requested, the Racetrack AQM station will include a stoplight-type lighted alarm system with signals as follows:

- **Green Light** – SO_2 and NH_3 levels normal
- **Yellow Light** – SO_2 or NH_3 levels elevated (Control Level Alarm)
- **Red Light** – SO_2 and NH_3 level high (Action Level Alarm)

Indoor stations (except the NH₃ bullet tank monitor in PO2) will have a similar three-light tower system with the same colors (one tower per station), but will also have an audible local alarm (buzzer) that will activate when the Action Level is reached.

Weather Station

One on-site weather station is proposed to be operated on-site and located on a building roof, likely PO1. The station sensors will be located on a 10-foot tripod, and will continuously measure wind speed, wind direction, temperature and relative humidity. Real-time continuous data will be automatically saved as both 15-minute and 1-hour time-weighted averages.

Data Acquisition and Communication

At each of the 10 AQM stations and the weather station, real-time data will be automatically sent by digital or analog sensor output to a Campbell CR850 data logger where the data will be time-averaged and electronically stored. Each station will be powered by 120VAC, and will include battery-backup power to operate for short periods (up to a few hours) without AC power.

Instantaneous and time-averaged data from each station will be transmitted from the data logger at each station to a Campbell CR6 data logger and PC computer (Central Station) located in or near the site's main control room. Except for the weather station and racetrack station, data transmission from each station will be accomplished using a 2.4 GHz wireless Wi-Fi system (Ubiquity Rocket M). If siting interferes with Wi-Fi communication to a station, alternate communication may be used instead (cellular, radio or direct-wire). Data from the weather station, racetrack station and Ubiquity Rocket M will be transmitted to the Central Station PC using cellular modems. The cellular communication will also allow secure direct access to those stations via secure IP address by off-site users authorized by Hydrite.

SCOPE OF SERVICES

PHASE 2 – EQUIPMENT PROCUREMENT, INSTALLATION AND OPERATIONS TRAINING

Phase 2 will consist of the completing following three tasks;

1. Equipment Procurement and Field Siting Prep
2. System Configuration and Bench Testing
3. Field Installation, Calibration and Operations Training of Hydrite staff

Task 1. Equipment Procurement and Field Station Site Prep

In Task 1, OBG will purchase the following instrumentation (capital equipment) to be owned by Hydrite:

- SO₂/NH₃ AQM Stations and Supplies – 10 stations including: monitors, data loggers, enclosures, power supplies, Wi-Fi/cell modems, alarms, calibration gas, regulators, calibration gas bags, and zero filters.
- Weather Station – including: sensors, data logger, enclosures, power supplies, and cellular modem
- Communication System – including: Wi-Fi system components for the on-site AQM stations, and cellular system components for the off-site racetrack AQM station and on-site weather station
- Central Station – including: the central data logger with enclosure and power supply, the central PC (Windows 7 laptop) with MS Office, and an auxiliary monitor
- H₂S Monitoring Equipment– including: H₂S sensors (to be added to 2 of the 15 SO₂ and NH₃ MultiRAEs), calibration gas, and a regulator
- Alarm Lights – including: a stoplight for the racetrack station and a light tower at each indoor station

Vendor price quotes for the capital equipment is presented in Enclosure 1. A list of major capital equipment, quantities and cross reference to vendor quotes is presented in Table 1 below.

Table 1. Air Quality Monitoring System – Summary of Major Capital Equipment

Items	Vendor Quote	List of Items	Quantity	Comments
SO ₂ and NH ₃ AQM Stations and Supplies	DiVal Safety and Supplies	1. MultiRAE Lite	15	12 MultiRAEs at 10 stations with 3 spares; all with 4-year service contract
		2. 4-year MultiRAE Full Service Contract	15	
		3. SO ₂ Calibration Gas – 5 PPM	1	
		4. SO ₂ Calibration Gas – 2 PPM	1	
		5. NH ₃ Calibration Gas – 50 ppm	1	
		6. Calibration Gas Regulator	3	
		7. Tedlar Gas Sample Bag	2	
		8. Zero Filters	3 pairs	
	Campbell Scientific Items 2 - 20	1. CR850 Data Logger	10	
		2. Battery-backup Power Supply	10	
		3. Wireless Network Links and Power Supply	14	
		4. Wireless System Antennas, Cables and Hardware	12	
		5. Weather Resistant Enclosure – 16" x 14"	8	
		6. Weather Resistant Enclosure – 18" x 16"	2	
	Campbell Scientific Items 21 - 28	1. Alarm Light Controller and Cabling	5	
		2. Mounting Kits and hardware	10	
Weather Station	Campbell Scientific Items 35 - 48	1. Wind Speed, Wind Direction, Temperature and Relative Humidity Sensors and Hardware	1	
		2. Battery Backup Power Supply	1	
		3. Weather Resistant Enclosure – 16" x 14"	1	
		4. Tripod and Grounding Kit	1	
Communication System	Campbell Scientific Items 51 - 62	1. Cellular Modems	4	
		2. Mounting Kits, Adaptors and Cabling	3	
		3. Cellular Antennas	3	
		4. 2.4 GHz Ubiquity Rocket WiFi System and Cabling	1	
		5. WiFi Mounting Tripod and Enclosure	1	
		6. 900 Mhz Spread Spectrum Radio Transmitter	3	
		7. Radio Antenna and Cabling	3	
Central Station	Campbell Scientific Items 29 - 34	1. CR6 Data logger and external keyboard display	1	
		2. Battery Backup Power Supply	1	
		3. Network Router Switch	1	
		4. Weather Resistant Enclosure – 16" x 14"	1	
	GHA Tech; Campbell Sci. Items 49 - 50	1. Laptop PC and External Monitor	1	
		2. Loggernet Data acquisition Software	1	
H ₂ S Monitoring Equipment	DiVal Safety and Supplies	3. RTMC Pro – Display and Alarm Software	1	
		1. Addition of H ₂ S sensor to two MultiRAEs	2	
		2. Additional Repair/Maintenance Contract	2	
		3. H ₂ S Calibration Gas – 20 PPM	1	
Alarm Lights	Lights-to-Go Grainger	4. Additional Calibration Gas Regulator	1	
		1. Stoplight for Racetrack AQM station	1	
		2. Light tower for indoor AQM stations	4	
ppm – parts per million				

As indicated in Table 1, each MultiRAE has been proposed with the manufacturer's optional full-service Guaranteed Cost of Ownership (GCO) Plan which is a 4-year repair and replacement guarantee. GCO Plan coverage and terms are presented in Enclosure 2.

Also, as part of Task 1 and as discussed during our phone call last week, OBG will also conduct a visit to the Facility to conduct field station site prep. During the visit, OBG will meet Hydrite and Hydrite's electrical contractor (assumes up to 8 hours on-site by two OBG staff) to select the mounting location for each station and the location for Hydrite electrical contractor to install a 120 VAC electrical outlet. In addition, anticipated locations needed for accessing to the outside through walls or roofs for sample lines or cabling will be discussed.

Task 2. System Configuration and Bench Testing

Capital equipment ordered in Task 1 will be received by OBG at our air measurements shop in Liverpool, NY for configuration and bench testing (Task 2). Activities in Task 2 will include the following:

- Assembly, configuration, programming, and testing of each AQM station and the weather station
- Set up of the wireless communication systems and programming of the Central Station data logger
- Installation of the data acquisition and display software on the Central Station PC, configure the alarm notifications in the data acquisition software, and design operator displays.

Task 3. Field Installation, Calibration and Operations Training

Once equipment is bench tested, OBG will transport the equipment to Hydrite's Terre Haute facility for the field installation. The field activities will consist of the following:

- Station Installation – 10 AQM stations and 1 weather station
- Central Station Installation – Including the Campbell CR6 data logger and Central Station PC
- Communications System Installation and Testing
- Instrument Calibration and Test of Alarm System
- Operator Training in Routine Operation and Maintenance

Task 3 is anticipated to take place over a two-week period. In the first week (Monday to Friday), AQM stations, the weather station and the central station will be installed along with communication system. Once installed, the communication system will be tested and adjustments made to antenna siting and alignment. It is expected that instrument calibrations and testing of the alarm system will be conducted the first two to three days of the second week, followed by two days of operator training. Training will include review of operation procedures for weekly routine visits to each station, review of displays on the Central Station PC, and station alarm evaluation, investigation and response.

PHASE 3. QUALITY ASSURANCE (QA)/QUALITY CONTROL (QC) OPERATIONS SUPPORT

Phase 3 operational support will consist of the following tasks:

1. Initial System Support
2. Routine Quarterly QA/QC Site Visits
3. Non-Routine Support

Task 1. Initial System Support

After installation and operator training is complete, OBG will provide support of routine operations for a period of four weeks. Support will consist of weekly site visits (four visits total of up to 12 hours on-site by one person over two days assumed) during which OBG will assist and provide additional support and site training where needed such as in instrument calibrations, communications and/or data management.

Task 2. Routine Quarterly QA/QC Site Visits

Routine quarterly QA/QC site visits will be conducted by OBG approximately three, six and nine months after installation (late-June, September and December). Site visits will be conducted by two OBG staff over a two-day period (up to 12 hours on-site). During each visit, the following will be conducted:

- Calibration and maintenance of each AQM station and the meteorological station including AQM monitor precision checks, sample flow rate checks, and replacement of sample lines if necessary
- Verification of proper data communication and alarm operation for each station
- Review of historical data since the last visit and conduct data archiving

During each visit, OBG will also discuss any control or action level alarms with the Hydrite site operator and perform any necessary updates to the data logger programs and Central Station PC software.


Task 3. Non-routine Support

Non-routine support will consist of on-site and off-site support. Upon Hydrite's request, non-routine site visits will be performed by OBG to repair instrument malfunctions, or to incorporate upgrades to the AQM system in response to Hydrite's changing system needs. For budgetary purposes, one two-day day visit (8 hours on-site) to the site by one person including travel per quarter is assumed (3 visits total).

In addition, as requested by Hydrite, OBG will also provide non-routine off-site support from our Syracuse office via telephone and using the AQM system's remote access capability. For budgetary purposes, up to 8 hours of off-site support per month is assumed.

ASSUMPTIONS AND CLARIFICATIONS

Our fee is based on the information presented in this proposal and the following assumptions and clarifications:

- Hydrite will provide a 120 VAC GFCI power receptacle to each AQM station, the weather station and the PC Central Station.
- Access or protrusions for sample lines or cabling running through interior wall or to the outside will be provided by Hydrite.
- Project is proposed as a Lump Sum (Fixed Fee) project. The fixed fee for capital equipment are estimated based on the attached vendor price quotes that include estimated shipping plus New York sales tax and % OBG direct expense markup, and may vary depending on actual shipping.

PROJECT SCHEDULE

The initial draft of the Hydrite Air Quality Monitoring Plan is anticipated to be completed by this Friday, January 30. While the monitoring plan is being revised by Hydrite, OBG can begin Phase 2 upon written authorization to proceed. Assuming authorization is received by Friday, January 30, following would be the tentative schedule:

- Equipment ordered Monday, February 1.
- Equipment delivered to OBG by March 1 (assumes 4 weeks ARO; all equipment quoted at ≤3 weeks ARO)
- Phase 2 Task 1 site visit week of March 5 and bench testing completed by March 11
- System installation and operations training completed by April 1.

PROJECT FEE AND TERMS

O'Brien & Gere will conduct the scope of work outlined above on a fixed fee basis as follows:

Fixed Fee

PHASE 2

Tasks 1 to 3 – All Labor and Expenses (excluding Capital Equipment)

Capital Equipment - Direct Costs

SO₂ and NH₃ Monitors and Calibration Equipment (Dival)

Additional H₂S Monitoring Equipment (DiVal)

Data Loggers, Enclosures, Communications, and PC (Campbell)

Racetrack and Indoor Alarm Lights (Lights-to Go and Grainger)

Central Station PC and Monitor (GHA Technologies)

Subtotal:

8% Sales Tax (NY):

8% Markup on Directs:

Capital Equipment Total:

Phase 2 Total:

PHASE 3

Tasks 1 to 3 – All Labor and Expenses (April to December, 2016)

Phase 3 Total:

We propose to conduct this project in accordance with the terms and conditions established for our current Hydrite/OBG contract. Note, OBG can also provide other services, such as stack monitoring consultation, on a time and materials basis, using the labor rate schedule currently in place for the Burner #1 Assistance project.

We appreciate the opportunity to provide you these services. If you have any questions regarding this proposal, please contact me at (315) 956-6410 or at scott.manchester@obg.com.

Very truly yours,
O'BRIEN & GERE ENGINEERS, INC.



Scott C. Manchester
Project Manager

Enclosures: 1 – Equipment Quotes (DiVal, Campbell Scientific, Grainger, Lights-to-Go, and GHA Technologies)
2 – RAE Systems GCO Plan Description

cc: Thomas Henan, Sr. – OBG

**Equipment Quotes (DiVal,
Campbell Scientific,
Grainger, Lights-to-Go,
and GHA Technologies)**



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Quotation

Page 1 of 2 | Date: 01/27/2016

Customer Information

ATTN: Chris Finke
Customer: O'BRIEN & GERE ENG
Customer #: 01-96129
Address : 7600 MORGAN ROAD
LIVERPOOL, NY 13090
E-Mail: chris.finke@obg.com
Phone: (315) 956-6538

Quote Information

Quote Number: DS-58978-Q5Z0
Expiration Date: 2/12/2016
Terms: NET 30 DAYS
Lead Time: 2 Weeks
Carrier: FEDEX GROUND PREPAID
CSR Rep: Gene Scherer
gscherer@divalsafety.com
Sales Rep: Karen Marsell
kmarsell@divalsafety.com

ITEM #	DESCRIPTION	QTY	PRICE	U/M	TOTAL
	RAE Systems MultiRAE Lite, SO2, NH3, rechargeable Li-Ion battery, also includes P2P Communication capability.				
	Monitor-Only Configuration Includes:				
	<ul style="list-style-type: none">• MultiRAE Lite monitor with sensors, battery, and protective rubber boot and filter(s) installed• Continuous datalogging (6 months for 5 sensors @ 1-minute)• Travel charger / PC communications adapter• PC communication cable• AC adapter• Calibration adapter• Alkaline battery adapter• Toolkit with Hex tool and Phillips screwdriver• Quick Start Guide• CD with documentation• ProRAE Studio II Instrument Configuration & Data Management Software• Calibration and test certificate• Warranty / registration card• 10 charcoal VOC filters for CO sensor				
MAB3-0308000-P20	The pumped model of MultiRAE Lite also includes: <ul style="list-style-type: none">• Built-in pump• Belt clip installed• 3 spare external filters• PID sensor cap removal tool	13.00			

Exemption 4-Confidential

Rochester
845 West Avenue, Building 7
Rochester, New York 14611

Syracuse
6179 East Molloy Road
E. Syracuse, New York 13057

Pittsburgh
311 South Central Avenue
Canonsburg, Pennsylvania 15317

Philadelphia
220 Garfield Avenue
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Page 2 of 2 | Date: 01/27/2016

RAE Systems MultiRAE Lite, H2S, SO2, NH3, rechargeable Li-Ion battery, also includes P2P Communication capability.

Monitor-Only Configuration Includes:

- MultiRAE Lite monitor with sensors, battery, and protective rubber boot and filter(s) installed
- Continuous datalogging (6 months for 5 sensors @ 1-minute)
- Travel charger / PC communications adapter
- PC communication cable
- AC adapter
- Calibration adapter
- Alkaline battery adapter
- Toolkit with Hex tool and Phillips screwdriver
- Quick Start Guide
- CD with documentation
- ProRAE Studio II Instrument Configuration & Data Management Software
- Calibration and test certificate
- Warranty / registration card
- 10 charcoal VOC filters for CO sensor

2.00

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The pumped model of MultiRAE Lite also includes:

- Built-in pump
- Belt clip installed
- 3 spare external filters
- PID sensor cap removal tool

****COMMENT**** *Guarnateeded Cost of Ownership Program (GCO)*

SVC-PTC4-MA0	RAE Systems GCO Program for MultiRAE Lite on line item #1	13.00
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SVC-PTC4-MA0	RAE Systems GCO Program for MultiRAE Lite on line item #2	2.00
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****COMMENT**** Calibration Gas & Accessories

116L-175-5	Cal gas sulfur dioxide SO2 5ppm, nitrogen balance, 116 Liter Eco-Smart refillable cylinder	1.00
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116L-175-2	Cal gas sulfur dioxide SO2 2ppm, nitrogen balance, 116 Liter Eco-Smart refillable cylinder	1.00
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116L-14-50	Cal gas Ammonia NH3 50ppm, nitrogen balance, 116 Liter Eco-Smart refillable cylinder	1.00
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116L-99-20	Cal gas Hydrogen Sulfide H2S 20ppm, AIR balance, 116 Liter Eco-Smart refillable cylinder.	1.00
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8C10	Demand flow regulator for 34L, 58L & 103L alum cylinder	4.00
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5000003000	Rae Tedlar Quality sample bag	2.00
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0083024000	Rae external zeroing organic filter	3.00
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FREIGHT	Freight & Haz-Mat Charges for shipping to 1 location.	1.00
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Quote Total:

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Exemption 4-Confidential
Exemption 4-Confidential

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845 West Avenue, Building 7
Rochester, New York 14611

Syracuse
6179 East Molloy Road
E. Syracuse, New York 13057

Pittsburgh
311 South Central Avenue
Canonsburg, Pennsylvania 15317

Philadelphia
220 Garfield Avenue
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Houston
3131 Federal Road
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Quote Number	138504
Quote Date	01-12-16
Valid Through Date	03-31-16
Quoted By	Mike Hansen
Customer Number	16081
Est. Ship ARO	21 Days ARO
Page	1

Domestic Sales Quotation

Q U O T E	Chris Finke O'Brien & Gere Engineers PO Box 4873 Syracuse, NY 13221-4873 United States
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S H I P T O	O'Brien & Gere Engineers 333 W Washington St Syracuse, NY 13202
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Contact:	Chris Finke	Cust RFQ:	
Phone:	315-706-5628 xCell	Terms:	Net 45 Days
Fax:	315-463-7554	Freight Terms:	PP&A
Email:	Chris.Finke@obg.com	Incoterm:	FOB Logan, UT

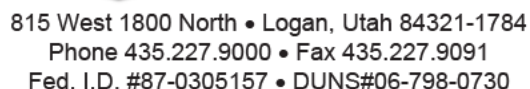
Li	Model	Part	Description	Qty	UM	Unit Price	Ext. Price
1	***Manual	Distribution: Send 1 Resource DVD.*** NOTE	AQM Stations =====	0	EA		
2	CR850-ST-SW-NC	18788-1	Measurement & Control Datalogger w/Built-In Keyboard & Display -ST -25 to +50C -SW Standard 3yr Warranty -NC No Calibration Cert	10	EA		
3		31143	Enclosure Hinged Stack Mounting Kit	10	EA		
4	PS150-SW	29293-1	12V Power Supply w/Charging Regulator (-40 to +60C) & 7Ah Sealed Rechargeable Battery -SW Standard 1yr Warranty	10	EA		
5	29796-US	29796-1	Power Supply 24Vdc 1.67A Output, 100-240Vac 1A Input, 5ft Cable -US US & Canada Plug	10	EA		
Continued							

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Authorized Signature X_____

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Quote Date	01-12-16
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Page	2

Q U O T E T O	Chris Finke O'Brien & Gere Engineers PO Box 4873 Syracuse, NY 13221-4873 United States
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S H I P	O'Brien & Gere Engineers 333 W Washington St Syracuse, NY 13202
T O	

Contact:	Chris Finke	Cust RFQ:	
Phone:	315-706-5628 xCell	Terms:	Net 45 Days
Fax:	315-463-7554	Freight Terms:	PP&A
Email:	Chris.Finke@obq.com	Incoterm:	FOB Logan, UT

[illegible]

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Phone:	315-706-5628 xCell	Terms:	Net 45 Days
Fax:	315-463-7554	Freight Terms:	PP&A
Email:	Chris.Finke@obg.com	Incoterm:	FOB Logan, UT

Li	Model	Part	Description	Qty	UM	Unit Price	Ext. Price
11		13906	Antenna Mount for Antenex Fiberglass OMNIs FM2	2	EA		
12	COAXRPSMA-L10	16113-1	Antenna Cable LMR195 w/Reverse Polarity SMA & Type N Male Connector 10ft per antenna cable	10	EA		
13	COAXNTN-L30	16112-7	Antenna Cable RG8 w/2 Type N Male Connectors 30ft per antenna cable	2	EA		
14		31314	Surge Protection Kit, Type N to RPSMA, 700- 2700MHz, 18 inches	2	EA		
15		21212	Black Cold Shrink Tape, 10ft long Roll, 1in wide	2	EA		
16		14291	Field Power Cable 12Vdc Plug to Pigtail, 2ft	10	EA		
17	ENC14/16-ES-MM	30708-65	Weather-Resistant 14 x 16 inch Enclosure	8	EA		
Continued							

This Quote is for Domestic purposes only.

Authorized Signature X_____

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Fax:	315-463-7554	Freight Terms:	PP&A
Email:	Chris.Finke@obg.com	Incoterm:	FOB Logan, UT

Li	Model	Part	Description	Qty	UM	Unit Price	Ext. Price
18	ENC16/18-ES-EL-MM	30709-170	-ES 6 Entry Seals for Cab -MM Tripod Mast Mounting Weather-Resistant 16 x 18 inch Enclosure -ES 6 Entry Seals for Cab -EL Backplate w/Left Side -MM Tripod Mast Mounting	2	EA		
19		14394	Raven & Redwing Mounting Kit	12	EA		
20		NOTE	Alarm notifications for eash AQ Station +++++	0	EA		
21	SDM-CD8S	19507	8-Channel Solid-State DC Controller	5	EA		
22	CABLE5CBL-L3-PT	21968-86	5-Conductor 22AWG Cable w/Drain 3ft per cable -PT w/Tinned Wires	5	EA		
Continued							

Exemption 4-Confidential
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This Quote is for Domestic purposes only.

Authorized Signature X_____

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815 West 1800 North • Logan, Utah 84321-1784
 Phone 435.227.9000 • Fax 435.227.9091
 Fed. I.D. #87-0305157 • DUNS#06-798-0730

Quote Number	138504
Quote Date	01-12-16
Valid Through Date	03-31-16
Quoted By	Mike Hansen
Customer Number	16081
Est. Ship ARO	21 Days ARO
Page	5

Domestic Sales Quotation

Q U O T E	Chris Finke O'Brien & Gere Engineers PO Box 4873 Syracuse, NY 13221-4873 United States
-----------------------	--

S H I P T O	O'Brien & Gere Engineers 333 W Washington St Syracuse, NY 13202
--------------------------------	---

Contact:	Chris Finke	Cust RFQ:	
Phone:	315-706-5628 xCell	Terms:	Net 45 Days
Fax:	315-463-7554	Freight Terms:	PP&A
Email:	Chris.Finke@obg.com	Incoterm:	FOB Logan, UT

Li	Model	Part	Description	Qty	UM	Unit Price	Ext. Price
23		SPECIAL-MFG	Assemble below connector blocks into a single bus with wires connected back to 12V. Mount to dinrail.	10	EA	Exemption 4-Confidential	Exemption 4-Confidential
24		25458	5-inch Din Rail Mounting Kit	10	EA	Exemption 4-Confidential	Exemption 4-Confidential
25		27478	CON TRM BLOCK GREEN/YELLOW 3X6 LEVEL AWG28-12 PHOENIX CONTACT ST 2.5-3PE	10	EA	Exemption 4-Confidential	Exemption 4-Confidential
26		27482	CON TRM BLOCK GRAY 3X6 LEVEL END CAP PHOENIX CONTACT ST 2.5-3	10	EA	Exemption 4-Confidential	Exemption 4-Confidential
27		21333	CON TRM SPRING ACC DIN RAIL END PLATE ORANGE WAGO 280-304	10	EA	Exemption 4-Confidential	Exemption 4-Confidential
28		NOTE	Hub =====	0	EA	Exemption 4-Confidential	Exemption 4-Confidential
Continued							

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--------------------------------	---

Contact:	Chris Finke	Cust RFQ:	
Phone:	315-706-5628 xCell	Terms:	Net 45 Days
Fax:	315-463-7554	Freight Terms:	PP&A
Email:	Chris.Finke@obg.com	Incoterm:	FOB Logan, UT

Li	Model	Part	Description	Qty	UM	Unit Price	Ext. Price
29	CR6-NA-ST-SW	28385-5	Measurement & Control Datalogger -NA No Additional Coms -ST -40 to +70C -SW Standard 3yr Warranty	1	EA	Exemption 4-Confidential	
30	CR1000KD	16136	Keyboard/Display for CR1000, CR800, or CR6	1	EA	Exemption 4-Confidential	
31	29796-US	29796-1	Power Supply 24Vdc 1.67A Output, 100-240Vac 1A Input, 5ft Cable -US US & Canada Plug	1	EA	Exemption 4-Confidential	
32	BP7	17365	12V Sealed Rechargeable Battery w/Mounts & Pigtail, 7Ah	1	EA	Exemption 4-Confidential	
33		SPECIAL-COM	4 channel Industrial Grade Network Switch MOXA EDS 205	1	EA	Exemption 4-Confidential	
34	ENC14/16-SC-NM	30708-66	Weather-Resistant 14 x 16	1	EA	Exemption 4-Confidential	
						Continued	

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Domestic Sales Quotation

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Contact:	Chris Finke	Cust RFQ:	
Phone:	315-706-5628 xCell	Terms:	Net 45 Days
Fax:	315-463-7554	Freight Terms:	PP&A
Email:	Chris.Finke@obg.com	Incoterm:	FOB Logan, UT

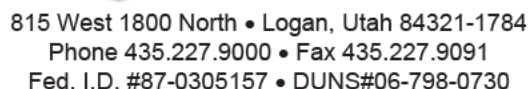
Li	Model	Part	Description	Qty	UM	Unit Price	Ext. Price
35		NOTE	inch Enclosure -SC 1 Conduit for Cables -NM No Enclosure Mounting Weather Station =====	0	EA		
36	CR850-ST-SW-NC	18788-1	Measurement & Control Datalogger w/Built-In Keyboard & Display -ST -25 to +50C -SW Standard 3yr Warranty -NC No Calibration Cert	1	EA		
37	CH150-SW	29289-1	12V Charging Regulator (-40 to +60C) -SW Standard 1yr Warranty	1	EA		
38	BP12	8065	12V Sealed Rechargeable Battery w/Mounts, 12Ah	1	EA		
39	28370-SK	28370-1	24Vdc 3.8A NEC Class 2 Power Supply Kit (Battery Not Included)	1	EA		
Continued							

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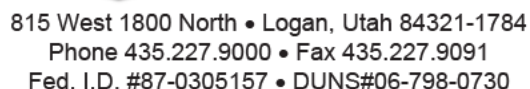
S H I P	O'Brien & Gere Engineers 333 W Washington St Syracuse, NY 13202
T O	

Contact:	Chris Finke	Cust RFQ:	
Phone:	315-706-5628 xCell	Terms:	Net 45 Days
Fax:	315-463-7554	Freight Terms:	PP&A
Email:	Chris.Finke@obq.com	Incoterm:	FOB Logan, UT

[illegible]

Authorized Signature X

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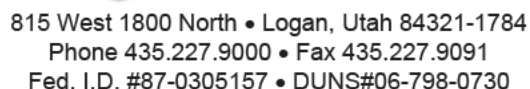
S H I P	O'Brien & Gere Engineers 333 W Washington St Syracuse, NY 13202
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Contact:	Chris Finke	Cust RFQ:	
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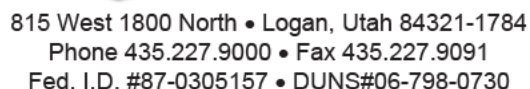
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Fax:	315-463-7554	Freight Terms:	PP&A
Email:	Chris.Finke@obq.com	Incoterm:	FOB Logan, UT

Li	Model	Part	Description	Qty	UM	Unit Price	Ext. Price
52		30988	3G GSM Cellular Gateway LS300 Mounting Kit	3	EA	Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential	
53		18663	Null Modem Cable 9-Pin Male to Male, 1ft	3	EA		
54		27555	USB 2.0 Cable Type A Male to Micro B Male, 6/6.5ft	3	EA		
55		20679	800MHz/0dBd & 1.9GHz/3dBd Omni Cell Antenna w/Type N Female & Mounting Hardware	3	EA		
56		21847	Cellular Phone Antenna Cable Type N Male to SMA, 12ft	3	EA		
57		SPECIAL- COM	Ubiquity Rocket M 2.4 Ghz	1	EA		
58		SPECIAL- COM	Ubiquity 2.4 Ghz AMO-2G13	1	EA	Exemption 4-Confidential	
Continued							

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S H I P	O'Brien & Gere Engineers 333 W Washington St Syracuse, NY 13202
T O	

Contact:	Chris Finke	Cust RFQ:	
Phone:	315-706-5628 xCell	Terms:	Net 45 Days
Fax:	315-463-7554	Freight Terms:	PP&A
Email:	Chris.Finke@obq.com	Incoterm:	FOB Logan, UT

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Contact:	Chris Finke	Cust RFQ:	
Phone:	315-706-5628 xCell	Terms:	Net 45 Days
Fax:	315-463-7554	Freight Terms:	PP&A
Email:	Chris.Finke@obg.com	Incoterm:	FOB Logan, UT

Li	Model	Part	Description	Qty	UM	Unit Price	Ext. Price
65		14221	Radio (-40 to +75C) 900MHz 3dBd Omni Antenna w/Type N Female & Mounting Hardware	1	EA		
66		20644	900MHz 0dBd Omni Antenna w/Adhesive Mount & SMA Male, 79 inch Cable	2	EA		
67	COAXSMA-L8	19505-10	Antenna Cable LMR195 w/SMA & Type N Male Connector 8ft per antenna cable	1	EA		
68		18663	Null Modem Cable 9-Pin Male to Male, 1ft	1	EA		
						SUBTOTAL	
						TAX	
						EST. FREIGHT	
						EST. TOTAL	

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Quotation

Grainger, Inc.
8820 Citation Rd.
Baltimore, MD 21221

Customer Information

O'BRIEN & GERE INC OF NORTH AMERICA
333 W WASHINGTON ST, STE 400
SYRACUSE NY 13202-5253

Billing Information

OBRIEN & GERE ENGINEERS
PO BOX 4873
SYRACUSE NY 13221-4873

Shipping Information

O'BRIEN & GERE INC OF NORTH AMERICA
333 W WASHINGTON ST, STE 400
SYRACUSE NY 13202-5253

Information

Grainger Quote Number	2026092622
Validity Start Date	01/26/2016
Validity End Date	01/31/2016
Creation Date	01/26/2016
Grainger EIN Number	36-1150280
PO #	SCOTT MANCHESTER
PO Create Date	
PO Release #	
Customer Number	810749770
Department Number	
Project/Job Number	
Requisitioner Name	SCOTT MANCHESTER
Attention	SCOTT MANCHESTER
Caller	SCOTT MANCHESTER
Telephone Number	3159566410
Page	1 / 2

Freight Forwarder

We will deliver according to the following terms and conditions:

Incoterms® 2010:	FOB ORIGIN
Freight Terms:	Prepaid
Carrier:	
Payment Terms:	Net 30 days after invoice date

Special Instructions:

Item	Material	Description	Quantity	Unit	Price	Total in USD
PO-Line						
10	5FTP0	Tower Light,60mm,0.08A,Rd,Org,Gr Mfg Brand Name: SCHNEIDER ELECTRIC Manufacturer Part No: XVC6B35SK	4.00	EA	Exemption 4-Confidential Exemption 4-Confidential	Exemption 4-Confidential Exemption 4-Confidential
Sub Total						Exemption 4-Confidential Exemption 4-Confidential
Total USD						Exemption 4-Confidential Exemption 4-Confidential



Quotation

Grainger, Inc.
8820 Citation Rd.
Baltimore, MD 21221

Information

Grainger Quote Number	2026092622
Creation Date	01/26/2016
Customer Number	810749770
Page	2 / 2

Item PO-Line	Material	Description	Quantity	Unit	Price	Total in USD
<p>Please reference our Grainger Quote Number, your Grainger Customer Number, and method of payment when remitting payment.</p> <p>These items are sold for domestic consumption in the United States. If exported, purchaser assumes full responsibility for compliance with US export controls.</p> <p>This transaction is subject to W.W. Grainger, Inc. sales terms and conditions. For a copy, please visit the website at http://www.grainger.com or refer to the current catalog.</p> <p>Thank you for the opportunity to provide this quotation. Please note that all the prices are based on products and quantities quoted. Any changes to the products and/or quantities may result in different pricing. The non-catalog freight policy applies unless freight amount is listed above. Please contact the Grainger office shown above if you have further questions or need to submit a new request.</p>						

Lights To Go Inc
208 East Silknitter Street
Rose Hill, KS 67133

(316)409-4911

Estimate



ADDRESS

Scott Manchester
Obrien & Gere Engineers

SHIP TO

Scott Manchester
Obrien & Gere Engineers

ESTIMATE #	DATE	EXPIRATION DATE
1719	01/26/2016	01/26/2016

Please detach top portion and return with your payment.

SHIP VIA REP. NAME
FedEx Ground Michael

ACTIVITY	QTY	RATE	AMOUNT
NB100-RYG-DC Red/Yellow/Green 100mm (4in) LED Signal	1	Exemption 4 - Confidential Exemption 4 - Confidential	Exemption 4 - Confidential Exemption 4 - Confidential

Accepted By

Accepted Date



GHA Technologies, Inc.
Dept. #2090
PO Box 29661
Phoenix, Arizona 85038
United States
<http://www.gha-associates.com>
(P) 480-951-6865
(F) 480-951-6956

Quotation (Open)

Date

Jan 25 2016 12 52 PM PST

Doc

957976 rev 1 of 1

Description

HP ProBook 650 g1

SalesRep

Olson Robert
(P) 509 315 2729
(F) 509 352 0468

Customer Contact

O'Hara Mike

Customer

O'Brien & Gere (OBG1005)
O'Hara Mike
333 W Washington St
Syracuse NY 13202
United States
(P) 315 956 6100

Bill To

O'Brien & Gere
Payable Accounts
333 W Washington St
Syracuse NY 13202
United States
(P) 315 956 6100

Ship To

O'Brien & Gere
Hogeboom David
333 W Washington St
Syracuse NY 13202
United States
(P) 315 956 6100

Customer PO:

Terms:

Net 30 Days

Ship Via:

FedEx Ground

Special Instructions:

Carrier Account #:

#	Description	Part #	Tax	Qty	Unit Price	Total
1	HP ProBook 650 G1 Core 5 4310M / 2.7 GHz Windows 7 Pro 64 bit / 8 Pro downgrade pre installed Windows 7 4 GB RAM 500 GB HDD DVD SuperMult 15.6" 1920 x 1080 (Full HD) intel HD Graphics 4600 Smart Buy	K4L03UT#ABA	Yes	1		Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential
2	HP V241P LED monitor 23.6" 1920 x 1080 MVA 250 cd/m2 3000:1 8 ms DV D VGA black promo	K0Q34A6#ABA	Yes	1		Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential
3	Microsoft Office Standard 2016 License 1 PC MOLP Open Business Win Single Language	021 10554	Yes	1		Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential
4	Windows Microsoft Rental Rights Licensing 1 License MOLP Open Business Single Language	9YP 00003	Yes	4		Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential Exemption 4-Confidential

Subtotal

Tax (8.000%)

Shipping

MS

Total:

Sales tax calculation is estimated and subject to change

Terms Definition Unless agreed upon otherwise Net 30 terms cash in the GHA bank 30 days from the date of shipment

Lease payment calculations are estimated and may include sales tax in the payment amount You can obtain an accurate lease quote from our lease company Rates are subject to change without notice

GHA is an authorized and leading supplier for Microsoft HP Apple and Cisco. GHA does not source any of these products from the gray market. If you have a pending quotation from a competitor that is significantly less in price, that may be a strong indication of gray market involvement. Please immediately bring this to the attention of your sales professional who can verify with the manufacturer for your benefit and protection. Your sales representative can also talk to you about the risks associated with doing business with a gray market supplier.

The prices quoted may change due to market conditions beyond our control. GHA cannot be responsible for manufacturer availability or delays. No verbal quotations or promises can be honored unless set forth herein.

Returns Policy: Custom computers and technology orders are non-cancellable and non-returnable. No return will be accepted after 30 days from the invoice date. Goods accepted for credit upon return will be subject to handling/restocking charge, which shall be not less than 15% of the price of Goods. Custom-made Goods are not subject to cancellation or return under any circumstances. In no case are Goods to be returned without first obtaining Seller's written permission. Goods must be securely packed in the original packaging and delivered to Seller in an undamaged condition with Buyer being solely responsible for paying all return freight expenses and keeping the GHA invoice current within 30 days from the date of shipment regardless of the reason for a return. All returns must be accompanied by an authorized RMA number, which is valid for 15 days after date of issuance. GHA Technologies makes NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE with respect to the goods described hereon. This document shall be governed by the laws of the State of Arizona.

****CONFIDENTIAL - THIS QUOTE HAS BEEN PROVIDED FOR CLIENT AND GHA PURPOSES ONLY****

CORPORATE OFFICE

(REMIT PAYMENTS TO THE PO BOX LISTED ABOVE)

NO PAYMENTS SHOULD BE MADE TO THE CORPORATE OFFICE)

GHA Technologies Inc.

8998 E. Rantree Drive

Scottsdale, AZ 85260

**RAE Systems GCO
Plan Description**

Gas Detection Instruments

Introduction

Guaranteed Cost of Ownership (GCO) plans are designed to fix the total cost of operating a gas detection instrument for a fixed period of time. More than just extending the warranty to cover repair costs, GCOs deliver the annual maintenance services that a gas detection instrument requires over the course of its service life. GCO plans offer great value, providing part and services at a lower cost than if purchased separately.

Guaranteed Cost of Ownership Plan

For owners of the following RAE Systems instruments:

- MiniRAE 2000
- ppbRAE Plus
- UltraRAE
- MultiRAE Plus
- MiniRAE 3000
- ppbRAE 3000
- UltraRAE 3000
- AreaRAE
- AreaRAE Gamma
- AreaRAE Steel
- AreaRAE Gamma Steel
- RAELink Modems
- Rapid Deployment Kits (RDks)
- AutoRAE and AutoRAE monitor cradles

In the United States and Canada, Guaranteed Cost of Ownership covers the annual maintenance, repair, and replacement cost of all elements in a RAE Systems gas detection instrument for four years from the instrument's date of original purchase.

Coverage includes:

4-Year Repair and Replacement Guarantee

- Pump and Battery
- All Sensors
- Housing and Membrane Panel
- Printed Circuit Boards
- Gas Plate and Probe
- Lamp and Housing
- Modem
- Service includes all labor charges and return shipping via UPS ground

Annual Maintenance Service includes:

- Factory Testing
- Calibration, Cleaning, and Filter Replacement
- Lamp Replacement (as required)
- Sensor Replacement (as required)
- Pump Service or Replacement (as required)
- Rechargeable Battery Pack Replacement (as required)

	Product	GCO Price	Part Number
AutoRAE	AutoRAE Controller	*	SVC-PTC4-480
	AutoRAE EntryRAE & QRAE II Cradles	*	SVC-PTC4-484
	AutoRAE QRAE Plus, MultiRAE Plus, QRAE and MiniRAE 2000 Cradles	*	SVC-PTC4-483
Multi-GAS	MultiRAE Plus	*	SVC-PTC4-095
PID	MiniRAE 3000	*	SVC-PTC4-592
	ppbRAE 3000	*	SVC-PTC4-594
	UltraRAE 3000	*	SVC-PTC4-596
	MiniRAE 2000	*	SVC-PTC4-110
	ppbRAE Plus	*	SVC-PTC4-295
	UltraRAE	*	SVC-PTC4-012
Wireless	AreaRAE ¹	*	SVC-PTC4-292
	AreaRAE with GPS ¹	*	SVC-PTC4-294
	AreaRAE Gamma ¹	*	SVC-PTC4-292G
	AreaRAE Gamma with GPS ¹	*	SVC-PTC4-294G
	RDK – System Package (without GPS)	*	SVC-PTC4-292R
	RDK – System Package (with GPS)	*	SVC-PTC4-294R
	RDK – Detector Kit (without GPS)	*	SVC-PTC4-292T
	RDK – Detector Kit (with GPS)	*	SVC-PTC4-294T
	RDK Gamma (without GPS)	*	SVC-PTC4-292RG
	RDK Gamma (with GPS)	*	SVC-PTC4-294RG
	RDK Gamma – Detector Kit (without GPS)	*	SVC-PTC4-292TG
	RDK Gamma – Detector Kit (with GPS)	*	SVC-PTC4-294TG
	RAELink2 Modem (all versions)	*	SVC-PTC4-229

¹ AreaRAE and AreaRAE Steel.

* Refer to Instrument Pricing Guide for current GCO pricing. Add **\$1,500.00** to “GCO Price” to cover each HCN, NH₃ and PH₃ electrochemical sensor.

Restrictions

- GCO must be purchased within one year of the covered product's original date of purchase
- Valid only to the product's original owner
- GCO only covers the sensors and components in the product's original configuration, as shipped
- GCO does not cover:
 - Water and chemical damage
 - Improper use or care of the product
 - Any product that is used for rental or demonstration purposes
 - Products owned by a RAE Systems Distributor or Representative
 - Laptop computer in RDK
 - 11.7 eV lamp

OBG

THERE'S A WAY

